भारतीय मानक
Indian Standard

IS 15834 : 2020

पेडलॉक के साथ उपयोग के लिए दरवाजों के स्टैनलैस इस्पात के सरकवां काबले (एल्ड्रॉप) — विशिष्टि

(पहला पुनरीक्षण)

Stainless Steel Sliding Door Bolts (Aldrops) for Use With Padlocks — Specification

(First Revision)

ICS 91.190; 77.140.20

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भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
मानक भवन, 9 बहादुरशाह ज़फर मार्ग, नई दिल्ली – 110002
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI-110002
www.bis.gov.in www.standardsbis.in

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Builder’s Hardware Sectional Committee, CED 15

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Builder’s Hardware Sectional Committee had been approved by the Civil Engineering Division Council.

Sliding door bolts, generally known as aldrops, are made from various materials like mild steel, brass and aluminium. However, in locations where atmospheric humidity levels are high, ordinary mild steel begins to rust unless properly protected. With the availability of stainless steel of suitable grade, sliding door bolts which are rust proof, durable and aesthetically good looking had been also available in stainless steel.

This standard was first published in 2008. This revision has been brought out to incorporate necessary modifications based on the experience gained during the use of the standard. In this revision, following are the significant changes made:

a) Grades of stainless steel to be used in the manufacture of bolts have been modified permitting use of any of the grades as per the revised standards for stainless steel plate, sheet and strip, and of stainless steel wire rods.
b) Additional sizes of door bolts have been included.
c) Considering varied furnishes being now used, the provision for use of other finishes as per the agreement between manufacturers and purchasers, has been included.
d) Cross-references to other Indian Standards have been updated.
e) Provisions on sampling have been updated.
f) Making clause has been modified.

Other Indian Standards available on sliding door bolts are as follows:

IS 281 : 2009	Mild steel sliding door bolts for use with padlocks — Specification (*fourth revision*)
IS 2681 : 1993	Non-ferrous metal sliding door bolts (aldrops) for use with padlocks — Specification (*third revision*)

The composition of the Committee responsible for the formulation of this standard is given in Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 ‘Rules for rounding off numerical values (*revised*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

STAINLESS STEEL SLIDING DOOR BOLTS (ALDROPS) FOR USE WITH PADLOCKS — SPECIFICATION

(First Revision)

1 SCOPE

This standard specifies the requirements regarding materials, manufacture, dimensions and finish of clip type stainless steel sliding door bolts used in general building construction for locking doors, gates, etc, with padlocks.

2 REFERENCES

The standards given below contain provisions which through reference in this text, constitute provisions of this standard. At the time of publications, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

IS No.	*Title*
1608 (Part 1) : 2018/ ISO 6892-1 : 2016	Metallic materials — tensile testing: Part 1 Method of test at room temperature (*fourth revision*)
4905 : 2015/ ISO 24153 : 2019	Random Sampling and Randomization Procedures (*first revision*)
6527 : 1995	Stainless steel wire rods — Specification (*first revision*)
6911 : 2017	Stainless steel plate, sheet and strip — Specification (*second revision*)
9844 : 1981	Method of testing corrosion resistance of electroplated and anodized aluminium coating by neutral salt spray test

3 SIZES

Stainless steel sliding door bolts shall be of the following sizes (*see* Fig. 1):

Sl No.	*Length, A* mm	*Diameter, D* mm
i)	150, 200 and 250	12
ii)	150, 200, 250 and 300	14
iii)	150, 200, 250, 300, 350 and 400	16
iv)	150, 200, 250, 300, 350, 400 and 450	19

4 MATERIALS

The stainless steel used for the manufacture of sliding door bolts shall be as given in **4.1** and **4.2**.

4.1 Sheet

The stainless steel for sheet shall conform to IS 6911.

4.2 Bolt

The stainless steel for bolts shall conform to IS 6527.

5 DIMENSIONS AND TOLERANCES

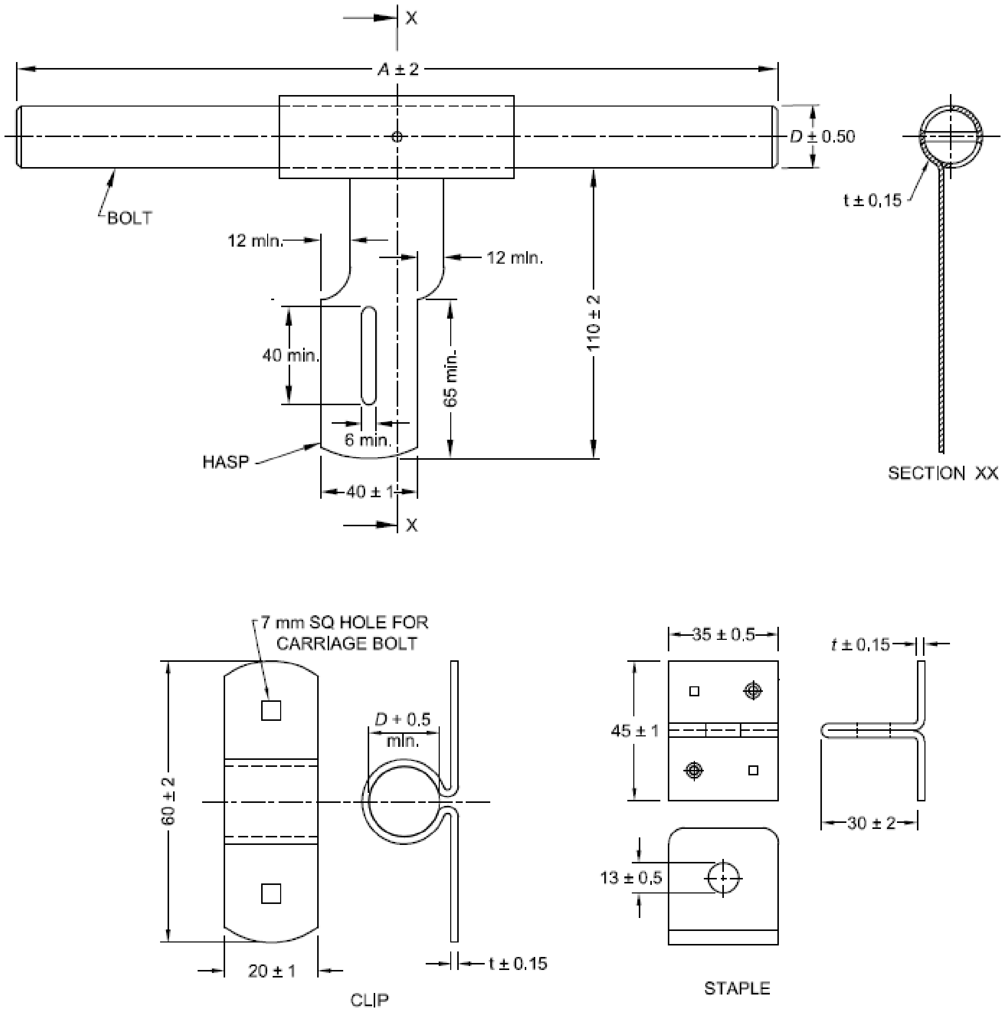
The dimensions of sliding door bolts and tolerances thereon shall conform to those given in Fig. 1.

6 MANUFACTURE

Stainless steel sliding door bolts shall be well made and shall be free from surface defects. The bolt shall be finished to the correct shape and shall have a smooth sliding action.

7 FINISH

Unless otherwise ordered for, the stainless steel sliding door bolts shall be polished bright with smooth surface. Other finishes can be supplied as agreed to between the manufacturer and purchaser. All edges and corners shall be smooth.



NOTES

1 *D* shall be 12 mm or 14 mm or 16 mm or 19 mm as given in **3.**

2 *t* shall be 2.20 mm for 12 mm and 14 mm diameter bolts and 2.50 mm for 16 mm and 19 mm diameter bolts.

3 The shape of parts are illustrative only but that dimensions and minimum requirements where specified are binding.

All dimensions in millimetres

FIG. 1 TYPICAL ILLUSTRATION OF STAINLESS STEEL SLIDING DOOR BOLT

8 MARKING

8.1 Each stainless steel sliding door bolts shall be clearly marked with the indication of the source of manufacture or trade-mark and the word ‘Stainless Steel’ shall be legibly imprinted.

8.2 BIS Certification Marking

The products(s) conforming to the requirement of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act*, 2016 and the Rules and Regulations framed thereunder, and the products(s) may be marked with the Standard Mark.

9 PACKING

Stainless steel sliding door bolts shall be suitably packed in cartons. Each carton shall bear a label showing the following:

a) Source of manufacture or trade-mark,
b) Size,
c) Grade/designation of materials used,
d) Quantity,
e) Batch number, and
f) Date of manufacture.

10 SCALE OF SAMPLING AND CRITERIA FOR CONFORMITY

10.1 Lot

In any consignment, all the stainless steel sliding door bolts of the same type, material, and size manufactured in one day shall be grouped together to constitute a lot.

10.2 Number of Samples

10.2.1 The number of stainless steel sliding door bolts, to be selected from a lot, shall depend upon the size of the lot and shall be in accordance to Table 1.

10.2.2 These stainless steel sliding door bolts shall be selected at random for at least 10 percent of the packages subject to a minimum of 3, equal number of stainless steel sliding door bolts being selected from each such package. In order to ensure the randomness of selection procedure given in IS 4905 may be followed.

Table 1 Scale of Sampling and Criterion for Conformity

(*Clauses* 10.2 *and* 10.4)

Sl No. (1)	Lot Size (2)	Sample Size (3)	Permissible Number of Defective Sliding Door Bolts (4)
i)	Up to 200	5	0
ii)	201 to 300	8	1
iii)	301 to 500	13	2
iv)	501 to 800	20	2
v)	801 and above	25	3

10.3 Tests

10.3.1 All the stainless steel sliding door bolts selected as in **10.2** shall be checked for dimensional requirements (*see* **5**), finish (*see* **7**) and manufacturing requirements (*see* **6**). Any stainless steel sliding door bolt which fails to satisfy the requirements of dimensions or finish or performance requirements shall be considered as defective.

10.3.2 For conformity to the requirements of materials, the manufacturer shall provide a certificate of compliance to the requirement given in **4.** If required by the purchaser, tensile test shall be carried out in accordance with IS 1608 (Part 1).

10.3.3 If required by the purchaser, the material shall be tested for corrosion resistance. Method of test and specification requirements shall be as agreed to between the purchaser and the manufacturer or salt spry test for 48 h be carried out as per IS 9844 in the absence of any such agreement.

10.4 Criteria for Conformity

A lot shall be considered as conforming to the requirement of this standard if the number of defective stainless steel sliding door bolts among those tested does not exceed the corresponding number given in col 4 of Table 1, otherwise the lot shall be deemed as not meeting the requirements of this standard and shall be rejected.

ANNEX A

(*Foreword*)

COMMITTEE COMPOSITION

Builder’s Hardware Sectional Committee, CED 15

Organization	*Representative(s)*
In Personal Capacity (*1421, Sector A, Pocket B & C, Vasant Kunj, New Delhi* 110070)	Shri B. Majumdar (***Chairman***)
Allied Anodisers, Kolkata	Shri Sushil Tawar
Appex Association of DDA Colonies (Regd), Delhi	Shri R. P. Agrawal Shri R. R. Sharma (*Alternate*)
Argent Industries, New Delhi	Shri Anil Chadha Shrimati Vanita Chadha (*Alternate*)
Builders’ Association of India, New Delhi	Shri Neerav Parmar Shri H. S. Psricha (*Alternate*)
Building Materials & Technology Promotion Council, New Delhi	Shri C. N. Jha Shri Pankaj Gupta (*Alternate*)
Central Public Works Department, New Delhi	Shri M. K. Sharma Shri Amar Singh (*Alternate*)
CSIR-Central Building Research Institute, Roorkee	Shri Ashok Kumar Shri S. K. Negi (*Alternate*)
D. P. Garg & Company Pvt Ltd, Noida	Shri S. M. Garg Shri R. C. Malhotra (*Alternate*)
Delhi Development Authority, New Delhi	Chief Engineer (NZ) S. E. (Civil-Circle-13) Dwarka (*Alternate*)
Engineering Projects (India) Ltd, New Delhi	Representative
Garnish Traders, New Delhi	Shri H. S. Sethi Ms Harmeet Sethi (*Alternate*)
Godrej & Boyce Mfg Co Limited, Mumbai	Shri T. S. Murali Shri Pravin Nayak (*Alternate*)
Hindalco Industries Limited, Sonbhadra	General Manager (R&D) Shri S. S. Singhvi (*Alternate*)
Hettich India Pvt Ltd, Vadodara	Shri Sanjeev Singh
Kich Architectural Products Pvt Ltd, Rajkot	Shri Bharat Hapani Shri Anil Vanjani (*Alternate*)
Lyfsysmac (India) Pvt Ltd, Pune	Shri Ashim Chugh
M C Mowjee & Company Pvt Ltd, Kolkata	Shri Rushd Mowjee Shri Sajid Mowjee (*Alternate*)
MECH (India) Industries, Delhi	Shri Sudhir Batra Shri Sameer Arora (*Alternate*)
Military Engineer Services, Engineer-in-Chief’s Branch, Integrated HQ of MoD (Army), New Delhi	Brig Mohit Motival Col Vivek Pathak (*Alternate*)
Ministry of Micro, Small & Medium Enterprises, New Delhi	Shri U. C. Shukla
Ministry of Railways, New Delhi	Representative

Organization	*Representative(s)*
Mukund Overseas, Mumbai	Shri Mukund Thakkar Shri Dinesh M. Thakkar (*Alternate*)
National Real Estate Development Council, New Delhi	Brig (Retd) R. R. Singh Shri Sushil Sionee (*Alternate*)
School of Planning and Architecture, New Delhi	Representative
The Indian Institute of Architects, Mumbai	Shri Abhijit Ray
BIS Director General	Shri Sanjay Pant, Scientist 'F' and Head (Civil Engineering) [Representing Director General (*Ex-officio*)]

Member Secretary

Dr Manoj Kumar Rajak
Scientist 'D' (Civil Engineering), BIS

Bureau of Indian Standards

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones: 2323 0131, 2323 3375, 2323 9402 *Website*: www.bis.gov.in

Regional Offices:		*Telephones*
Central	: Manak Bhavan, 9 Bahadur Shah Zafar Marg NEW DELHI 110002	2323 7617 2323 3841
Eastern	: 1/14 C.I.T. Scheme VII M, V.I.P. Road, Kankurgachi KOLKATA 700054	2337 8499, 2337 8561 2337 8626, 2337 9120
Northern	: Plot No. 4-A, Sector 27-B, Madhya Marg CHANDIGARH 160019	265 0206 265 0290
Southern	: C.I.T. Campus, IV Cross Road, CHENNAI 600113	2254 1216, 2254 1442 2254 2519, 2254 2315
Western	: Manakalaya, E9 MIDC, Marol, Andheri (East) MUMBAI 400093	2832 9295, 2832 7858 2832 7891, 2832 7892

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